



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "IR-501 Flush, Dry and Wet Glazed" Aluminum Storefront System - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1461, titled "IR501 Aluminum Store Front System - Large Missile Impact" Sheets 1 thru 9 of 9, dated 07/14/06, with revision C1 dated 09/02/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaeffer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA # 09-0218.07 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 11-0915.06
Expiration Date: February 15, 2017
Approval Date: October 27, 2011
Page 1


NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1461**, titled "IR501 Aluminum Store Front System - Large Missile Impact" Sheets 1 thru 9 of 9, dated 07/14/06 with revision C1 dated 09/02/11, prepared by W. W. Schaeffer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaeffer, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of series IR-501 aluminum flush glazed storefront system, specimens #1, 2, 2A, 5, 6, 7 and 8, by Hurricane Test Laboratory LLC, Test Report No. **HTL-G049-0201.08**, dated 03/07/07, signed and sealed by Vinu Abraham, P.E.
(Submitted under previous NOA#09-0218.07)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of a series IR-501 aluminum flush glazed storefront system, prepared by Hurricane Test Laboratory LLC, Test Report No. **HTL-G049-0303.07**, dated 03/07/07 with amendment letter dated 09/07/07, all signed and sealed by Vinu Abraham, P.E.
(Submitted under previous NOA#09-0218.07)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4.) Large Missile Impact Test, FBC, TAS 201-94
5.) Cyclic Loading Test, per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series IR-501 aluminum flush glazed storefront system, prepared by Hurricane Test Laboratory LLC, Test Reports No. **HTL-G049-1201.05** and **HTL-0049-0111.06** dated 04/18/06, signed and sealed by Vinu Abraham, P.E.
(Submitted under previous NOA#09-0218.07)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 11-0915.06
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C. CALCULATIONS

1. Anchor Calculations and structural analysis, complying with FBC-2007 and FBC-2010, prepared by W.W. Schaefer Engineering & Consulting, P.A, dated 02/10/09 and revised on 09/01/11, signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies with ASTM E1300-04.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

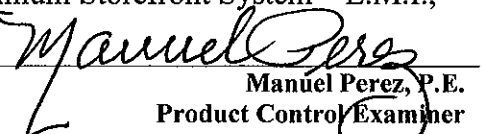
1. Notice of Acceptance No. **10-0922.09** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB, Interlayer**" dated 12/24/10, expiring on 12/11/11.
2. Notice of Acceptance No. **09-0223.05** issued to **Solutia, Inc.** for their "**Saflex Multi-layer Glass Interlayer**" dated 04/08/09, expiring on 04/08/14
3. Notice of Acceptance No. **10-0413.04** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Sentry Glass® Interlayer**" dated 05/26/10, expiring on 01/14/12.
4. **Exterior Gasket: TREMCO Part No. TR-14815E (Kawneer Part No. 127-126),** EPDM Dense Rubber Extrusion with 70 durometer ext. glazing gasket complying with **ASTM C864** Option II specs., **ASTM D412**, 1500 PSI, **ASTM D395B**, 22 HRS 158°F.
5. **Interior Gasket: TREMCO Part No. TR-14270E (Kawneer Part No. 127-121),** Closed Cell ("sponge") EPDM rubber compound, interior glazing gasket complying with **ASTM C509** Option II specification compression deflection limit 20-24psi.
6. **Exterior Gasket: TREMCO Part No. TR-14271E (Kawneer Part #027-074),** EPDM Dense Rubber Extrusion with 70 durometer glazing gasket complying with **ASTM C864** Option II specs., **ASTM D412** 1600 PSI, **ASTM D395B**, 22 HRS 158°F.

F. STATEMENTS

1. Statement letter of conformance to FBC-2007 and FBC-2010, issued by W. W. Schaefer Engineering & Consulting, P.A., dated 09/01/11, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, issued by W. W. Schaefer Engineering & Consulting, P.A., dated 09/02/11, signed and sealed by Warren W. Schaefer, P.E.
3. Laboratory compliance letter for Test Report No. **HTL-G049-0201-08**, issued by Hurricane Test Laboratory, Inc., dated 10/14/08, signed Jose E. Colon, E.I.
4. Test Proposal **#07-3288**, 10/11/07, issued by BCCO, signed by Ishaq I. Chanda, P.E.

G. OTHERS

1. Notice of Acceptance No. **09-0218.07**, issued to Kawneer Company, Inc. for their Series "IR-501 Flush, Dry and Wet Glazed" Aluminum Storefront System – L.M.I., approved on 04/15/09 and expiring on 02/15/12.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 11-0915.06
Expiration Date: February 15, 2017
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GENERAL NOTES:

1. THESE STORE FRONT SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT STORE FRONT SYSTEMS.
5. THESE STORE FRONT SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE STORE FRONT SYSTEMS.
7. ALL ANCHORS SECURING STORE FRONT FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

CORNER & FRAME END CONSTRUCTION:

FRAME HEAD CORNER (APPLICABLE TO ITEM #1A): HEAD IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH THREE(3) NO. 12 X 1" PHTS FASTENERS THROUGH THE SIDE MEMBER INTO THE HEAD MEMBER SCREW SPLINES & SEALED WITH SILICONE.

FRAME HEAD CORNER (APPLICABLE TO ITEM #1B): HEAD IS MITER CUT, BUTTED TO SIDE, FASTENED WITH TWO(2) NO. 12 X 1 1/2" PHTS FASTENERS THROUGH THE SIDE MEMBER INTO THE HEAD MEMBER SCREW SPLINES & SEALED WITH SILICONE.

FRAME SILL CORNER: SILL IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH THREE(3) NO. 12 X 1" PHTS FASTENERS THROUGH THE SIDE MEMBER INTO THE SILL MEMBER SCREW SPLINES & SEALED WITH SILICONE.

FRAME DOOR JAMB SILL CORNER: SILL IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 1 JAMB PIVOT ASSEMBLY. EACH PIVOT ASSEMBLY WAS FASTENED TO THE SIDE WITH THREE(3) NO. 12-24 X 5/8" FHMS. THE THRESHOLD IS THEN FASTENED TO PIVOT ASSEMBLY WITH TWO(2) NO. 12-24 X 3/8" FHMS & SEALED WITH SILICONE.

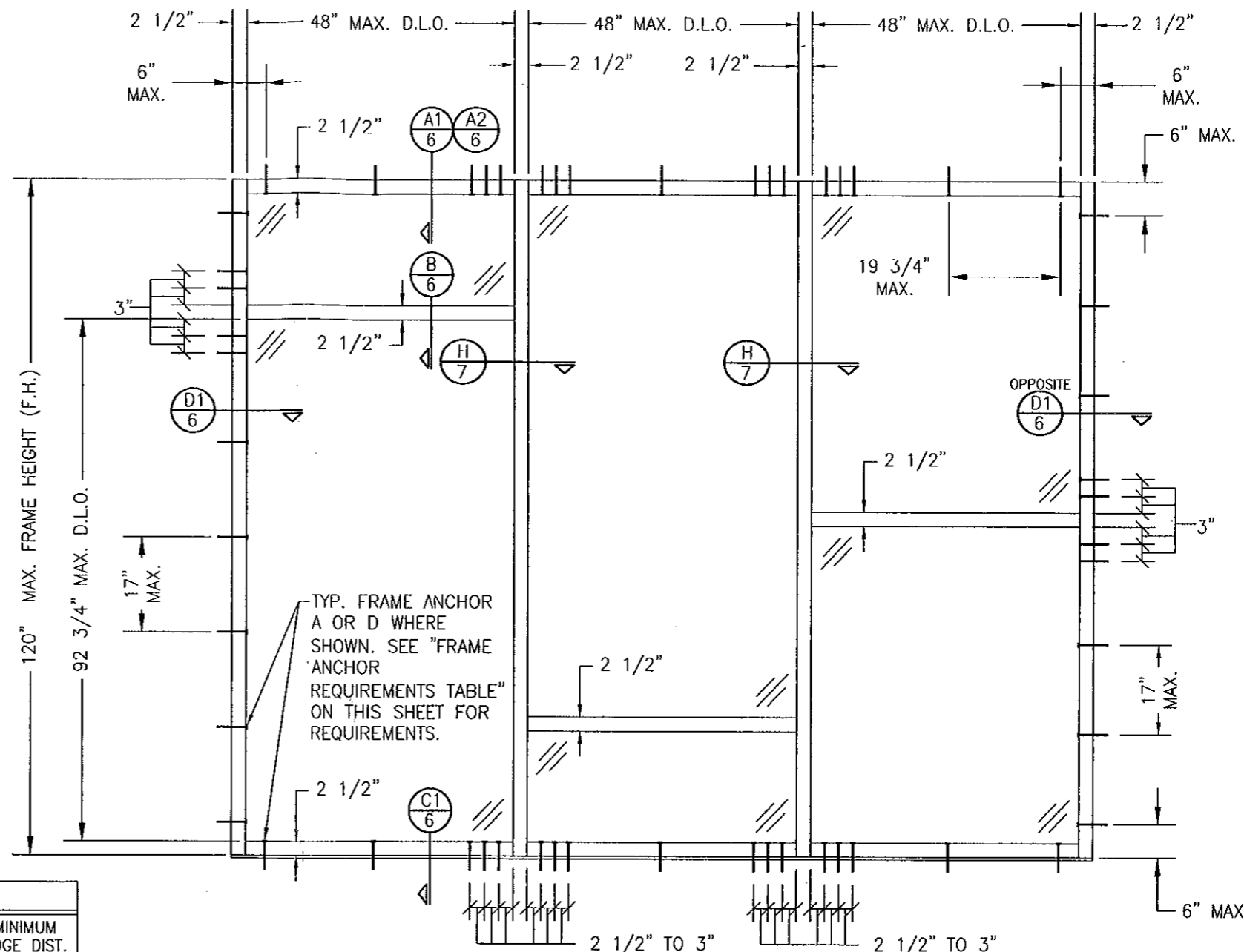
HORIZONTAL FRAME MULLION END (APPLICABLE TO ITEMS #6A & #7): HORIZONTAL IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH THREE(3) NO. 12 X 1" SS PHTS FASTENERS THROUGH THE SIDE MEMBER INTO THE MULLION MEMBER SCREW SPLINES & SEALED WITH SILICONE.

HORIZONTAL FRAME MULLION END (APPLICABLE TO ITEM #6B): HORIZONTAL IS SQUARE CUT, BUTTED TO SIDE, JOINED VIA A SHEAR BLOCK (PART #21). THE SHEAR BLOCK IS FASTENED TO THE VERTICAL FRAME MEMBER WITH FOUR(4) NO. 12 X 1 7/8" FHTF TYPE B SCREWS. THE HORIZONTAL MEMBER IS FASTENED TO THE SHEAR BLOCK WITH THREE(3) NO. 12 X 1" FHTF TYPE AB SCREWS. EACH CORNER IS SEALED WITH DOW 795 SILICONE SEALANT.

FRAME ANCHOR REQUIREMENTS TABLE

ANCHOR TYPE	OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
A	2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS SCREWS	1 1/4"	3/4"
B	MIN. 1/8" THICK A36 STEEL (MIN. $F_y = 36$ ksi)	(2) 1/4"-20 SELF DRILLING/TAPPING SCREW	FULL	3/4"
C	MIN. 3000 P.S.I. CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2 1/2"
D	MIN. 16 GA. 33 KSI METAL STUD	(2) 1/4"-20 SELF DRILLING/TAPPING SCREW	FULL	1/2"
E	MIN. C90 BLOCK	(1) 1/4" CONCRETE SCREW	1 1/4"	2 1/2"
(4) F	MIN. 3000 P.S.I. CONCRETE	(3) 3/8" WEDGE/SLEEVE ANCHOR	2 1/2"	3"

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).
- (2) SELF DRILLING & SELF TAPPING SCREWS SHALL BE MIN. GRADE 5 CORRIOSION RESISTANT STEEL
- (3) WEDGE/SLEEVE ANCHORS SHALL BE RAMSET/RED HEAD DYNABOLT, HILTI KWIK-BOLT 3, OR POWERS RAWL POWER BOLT (STEEL OR S.S.)
- (4) ANCHOR TYPE "F" IS ONLY APPLICABLE FOR USE WITH THE SILL ANCHOR BLOCK AT THE VERTICAL DOOR MULLION BOTTOM END.



EXTERIOR ELEVATION MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY (WITH ANCHOR TYPE "A" OR "D" TO WOOD OR METAL STUD)

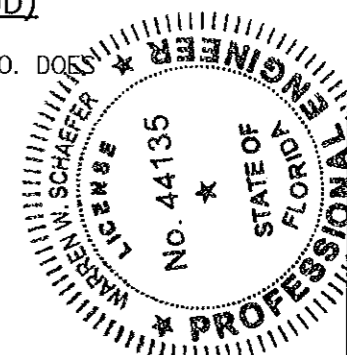
SCALE: 1/2"=1'-0"

HORIZONTAL STACKING & OVERALL UNIT WIDTH IS UNLIMITED PROVIDING D.L.O. DOES NOT EXCEED 48" WIDE AT EACH PANEL. NUMBER OF VERTICAL PANELS IS UNLIMITED BUT MUST FIT INSIDE MAXIMUM FRAME HEIGHT SHOWN.

ALLOWABLE DESIGN PRESSURE

+/-65 PSF

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 11-0915.06
Expiration Date FEB. 15, 2017
By *Maureen J. [Signature]*
Miami Dade Product Control



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/14/06	
DATE	BY	REVISION DESCRIPTION	NO.
07/02/07	W.W.S.	ADDED DRY GLAZED OPTION	A1
07/02/07	W.W.S.	REVISED ANCHOR CONDITIONS	A2
07/21/08	W.W.S.	ADDED RADIAL FRAME MEMBER & NEW TRUSS BAR	B1
09/02/11	W.W.S.	UPDATE TO PRESENT STANDARDS	C1

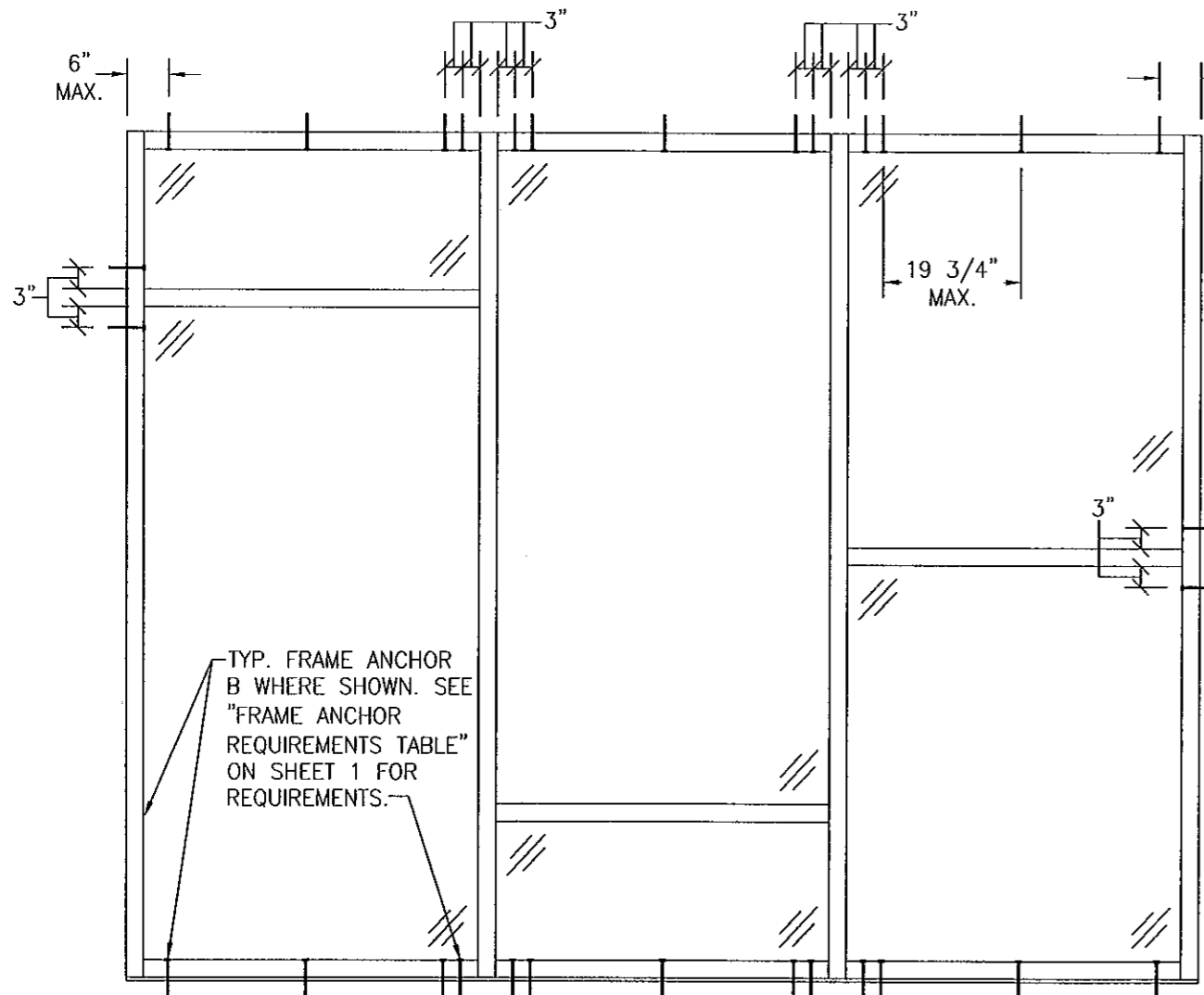
IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT

MANUFACTURER
KAWNEER COMPANY, INC.
555 GUTHRIE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
SEP 02 2011
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

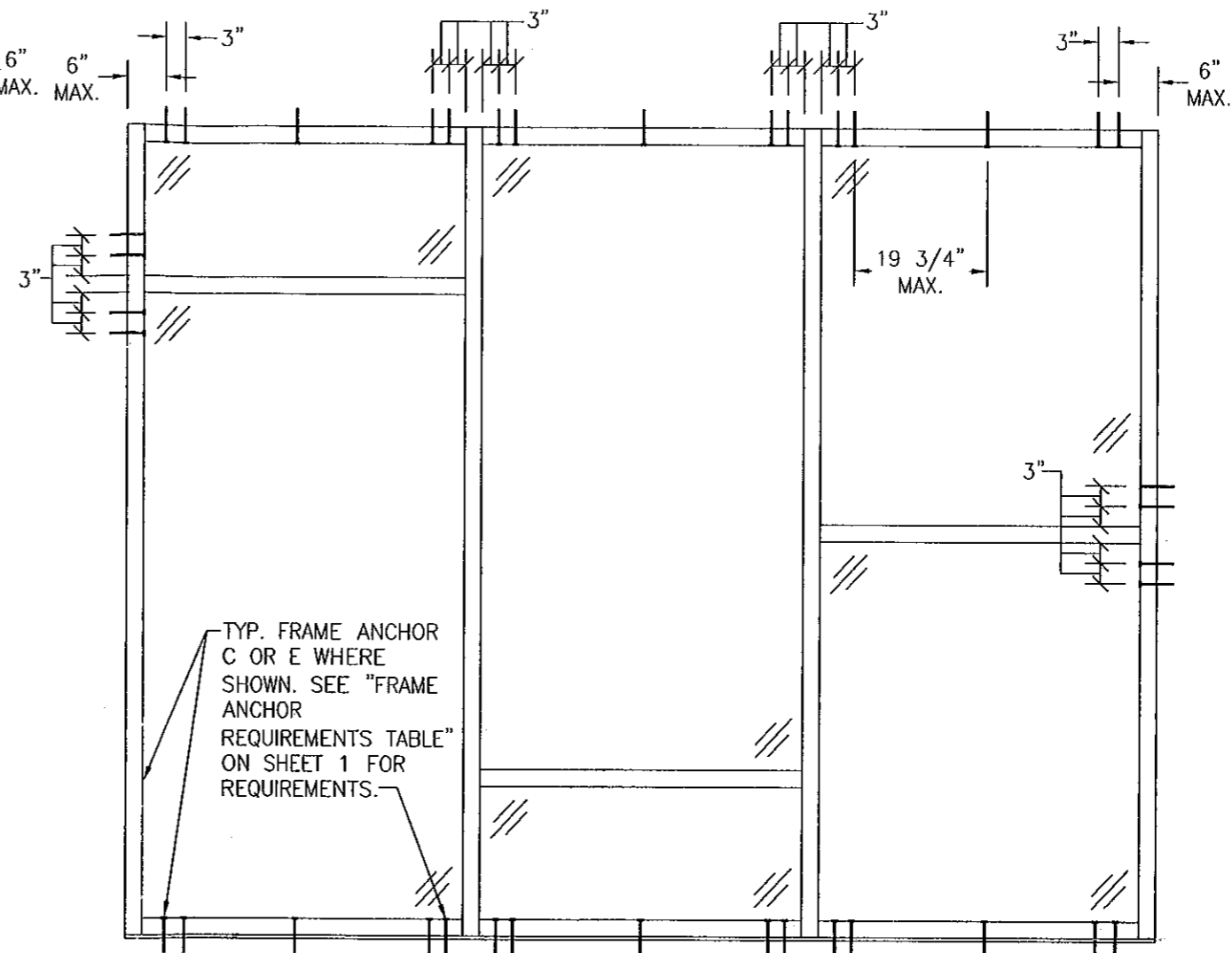
DRAWING NO. 1461
SHEET NO. 1 OF 9



EXTERIOR ELEVATION
MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY
(WITH ANCHOR TYPE "B" TO STEEL)

SCALE: 1/2"=1'-0"

FOR ALL FRAMING & D.L.O. DIMENSIONS AND SECTIONS, SEE ELEVATION ON SHEET 1.



EXTERIOR ELEVATION
MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY
(WITH ANCHOR TYPE "C" & "E" TO CONCRETE/CMU)

SCALE: 1/2"=1'-0"

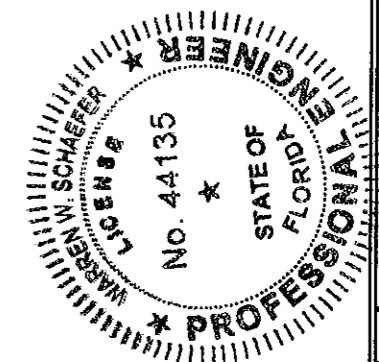
FOR ALL FRAMING & D.L.O. DIMENSIONS AND SECTIONS, SEE ELEVATION ON SHEET 1.

NOTE: CMU IS APPLICABLE ONLY AT SIDES.

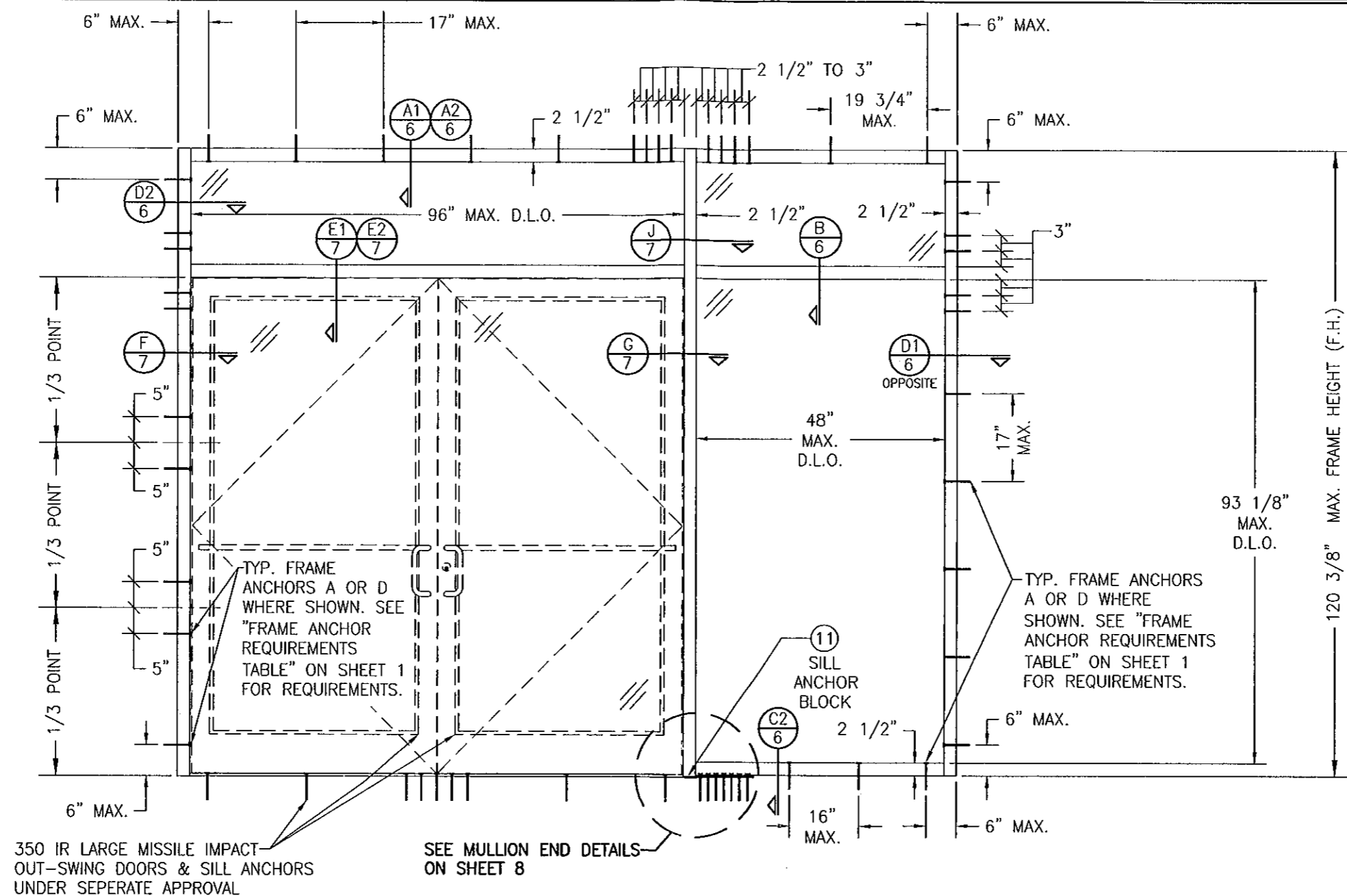
ALLOWABLE DESIGN PRESSURE

+/-65 PSF

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-0915.06
Expiration Date FEB. 15, 2017
By *Manuel Perez*
Miami Trade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/14/06	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		P.E. NO. 44135	
CERTIFICATION: SEP 02 2011		DRAWING NO. 1461	
		REV. C	
		SHEET NO. 2 OF 9	



350 IR LARGE MISSILE IMPACT
OUT-SWING DOORS & SILL ANCHORS
UNDER SEPERATE APPROVAL

SEE MULLION END DETAILS
ON SHEET 8

EXTERIOR ELEVATION
STORE FRONT ASSEMBLY WITH DOORS & TRANSOM
(WITH ANCHOR TYPE "A" OR "D" TO WOOD OR METAL STUD)

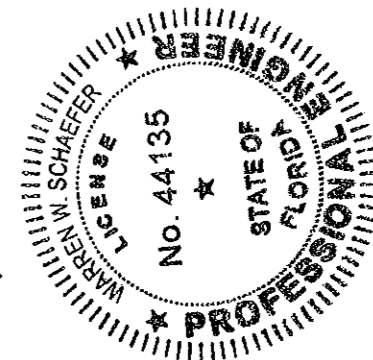
SCALE: 1/2"=1'-0"

SINGLE SIDELIGHT SHOWN, MULTIPLE SIDELIGHT CONDITION ALSO APPLIES WITH
SIDELIGHT AT ONE OR BOTH SIDES.
DOUBLE DOOR CONDITION SHOWN, SINGLE DOOR CONDITION ALSO APPLIES.
HORIZONTAL STACKING & OVERALL UNIT WIDTH IS UNLIMITED. NUMBER OF VERTICAL
PANELS IS UNLIMITED BUT MUST FIT INSIDE MAXIMUM FRAME HEIGHT SHOWN.

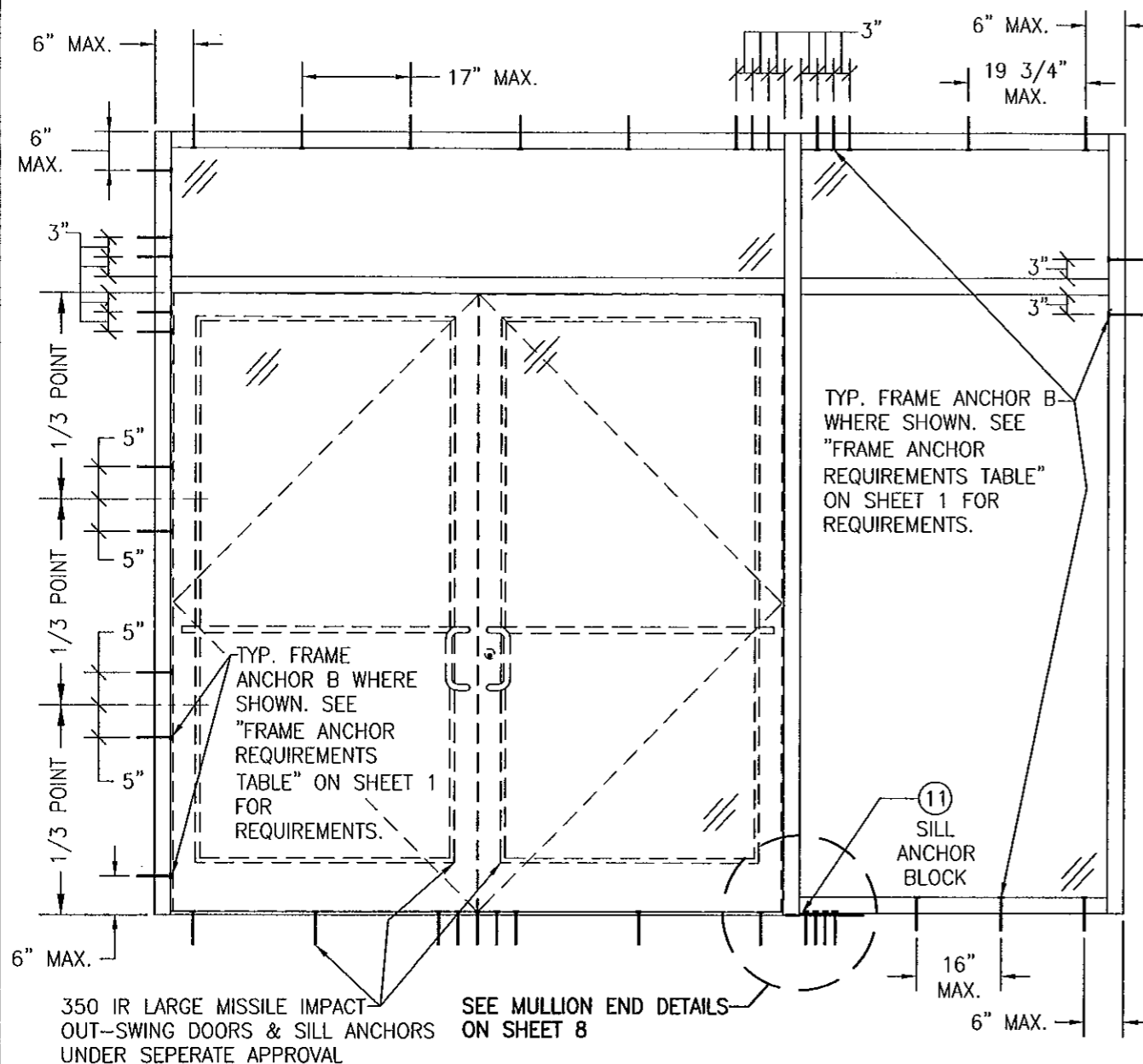
ALLOWABLE DESIGN PRESSURE

+/-65 PSF

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-0915.D6
Expiration Date FEB. 15, 2017
By *Manuel Lopez*
Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/14/06	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION SEP 02 2011	WARREN W. SCHAEFER, P.E. P.E. NO. 44135		
DRAWING NO. 1461	REV. C		
SHEET NO. 3 OF 9			

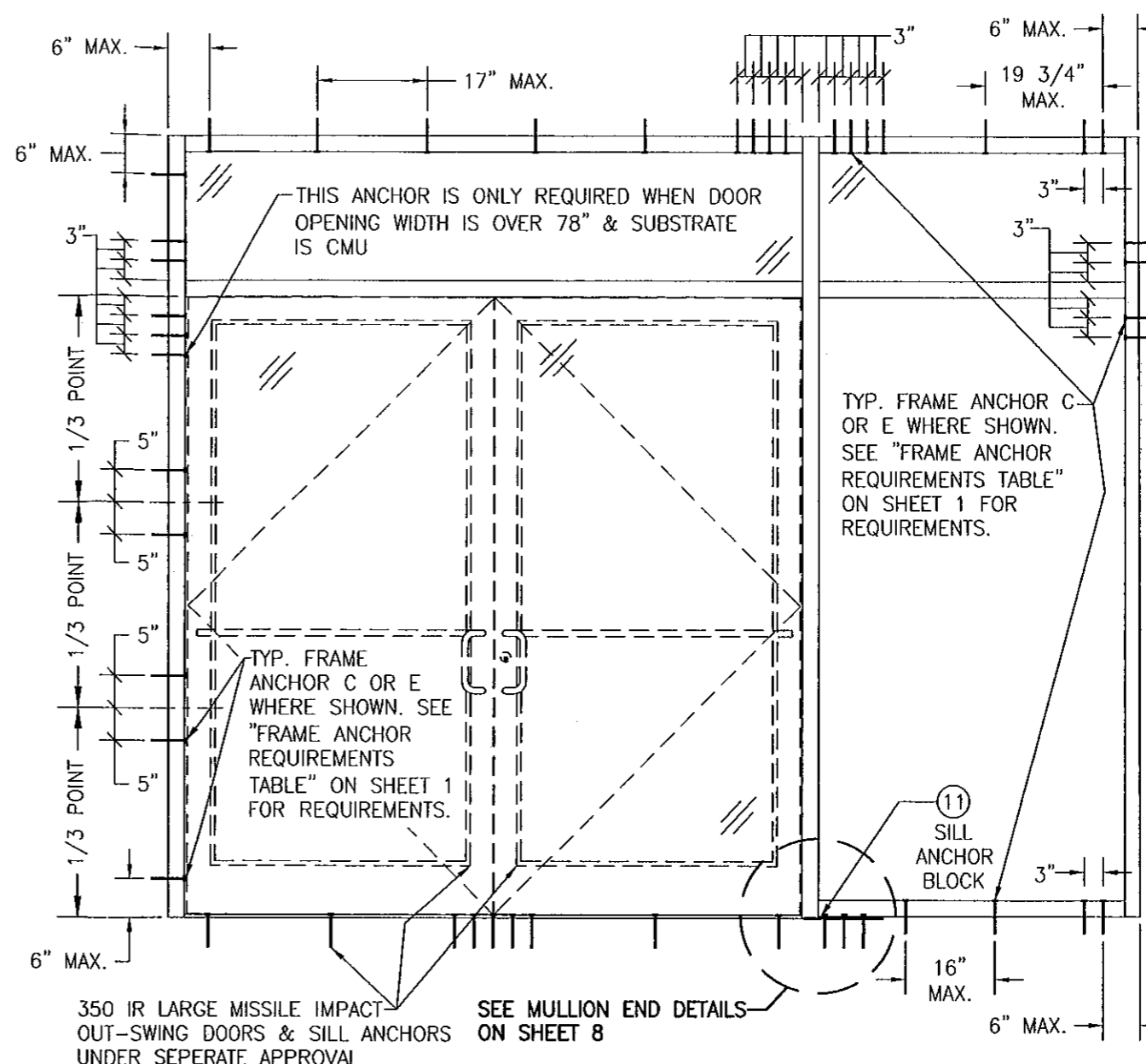


EXTERIOR ELEVATION
STORE FRONT ASSEMBLY WITH DOORS & TRANSOM
(WITH ANCHOR TYPE "B" TO STEEL)

SCALE: 1/2"=1'-0"

FOR ALL FRAMING & D.L.O. DIMENSIONS AND SECTIONS, SEE ELEVATION ON SHEET 3.

ALLOWABLE DESIGN PRESSURE
+/-65 PSF



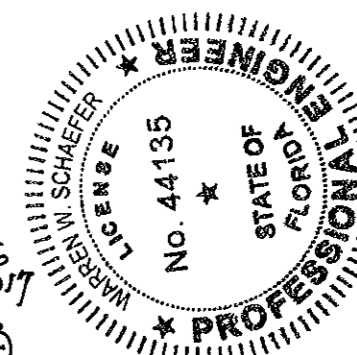
EXTERIOR ELEVATION
STORE FRONT ASSEMBLY WITH DOORS & TRANSOM
(WITH ANCHOR TYPE "C" & "E" TO CONCRETE/CMU)

SCALE: 1/2"=1'-0"

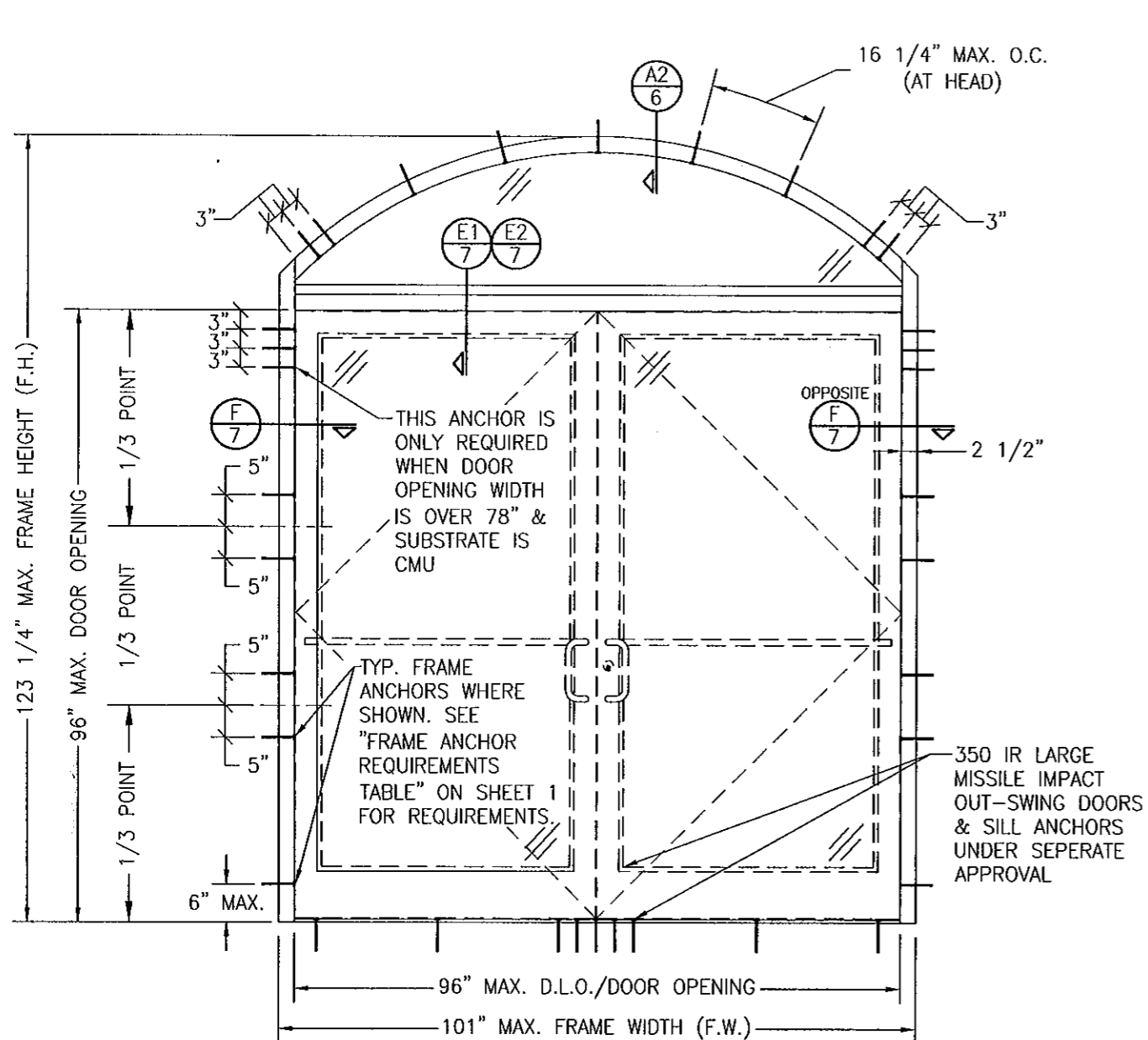
FOR ALL FRAMING & D.L.O. DIMENSIONS AND SECTIONS, SEE ELEVATION ON SHEET 3.

NOTE: CMU IS APPLICABLE ONLY AT SIDES.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-0915.06
Expiration Date FEB. 15, 2017
By *Warren W. Schaefer*
Miami Trade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 07/14/06
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL PHONE: 561-744-3424	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION SEP 02 2011	DRAWING NO. 1461
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	REV. C
	SHEET NO. 4 OF 9

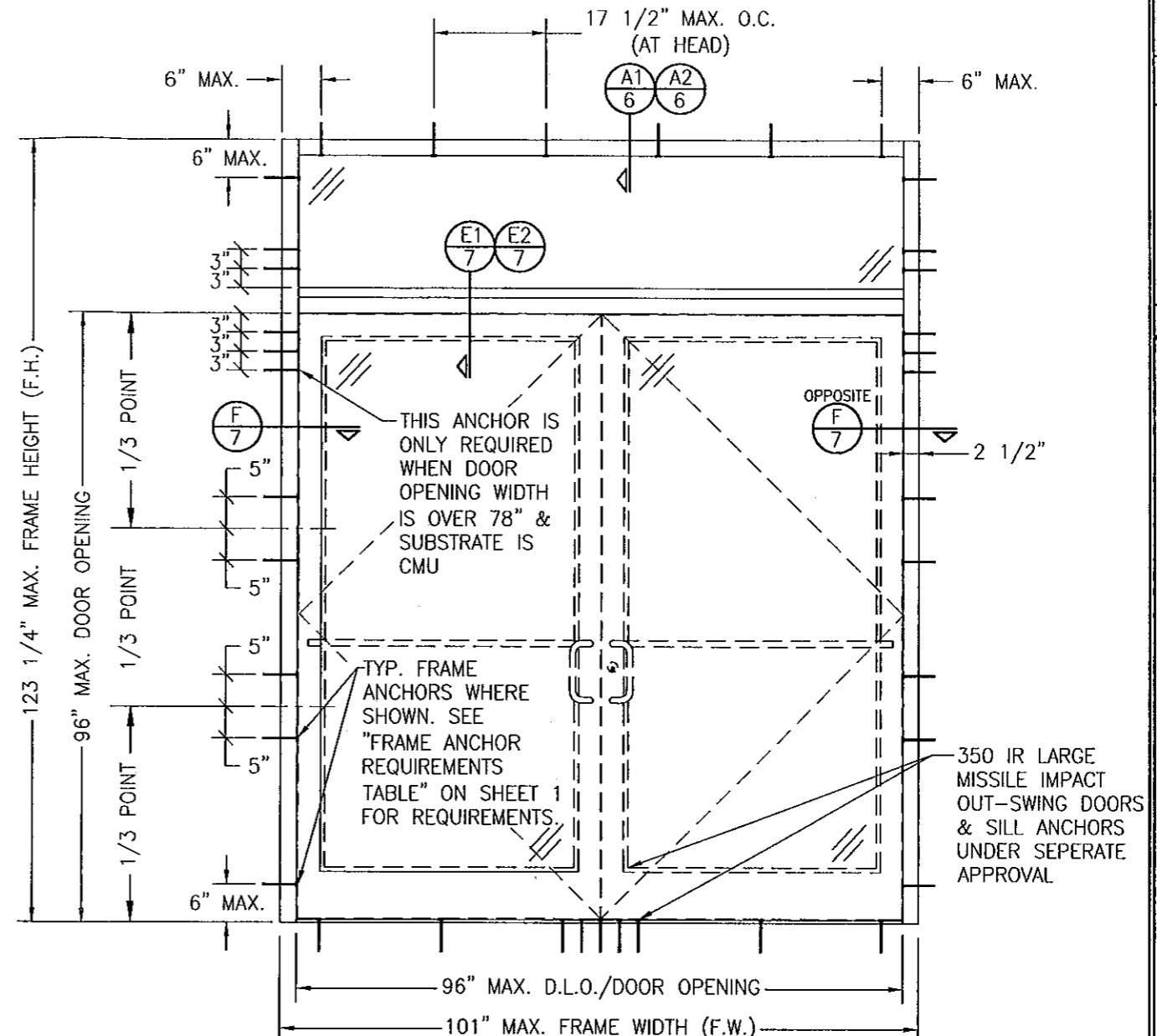


EXTERIOR ELEVATION
STORE FRONT FRAMING WITH DOORS & EYEBROW TRANSOM
(APPLICABLE WITH ALL SUBSTRATES)

(DOUBLE DOOR CONDITION SHOWN, SINGLE DOOR CONDITION ALSO APPLIES)

SCALE: 1/2"=1'-0"

ALLOWABLE DESIGN PRESSURE
 +/-65 PSF

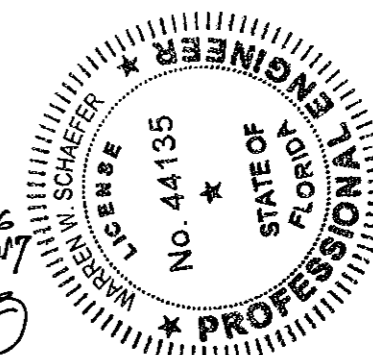


EXTERIOR ELEVATION
STORE FRONT FRAMING WITH DOORS & RECTANGULAR TRANSOM
(APPLICABLE WITH ALL SUBSTRATES)

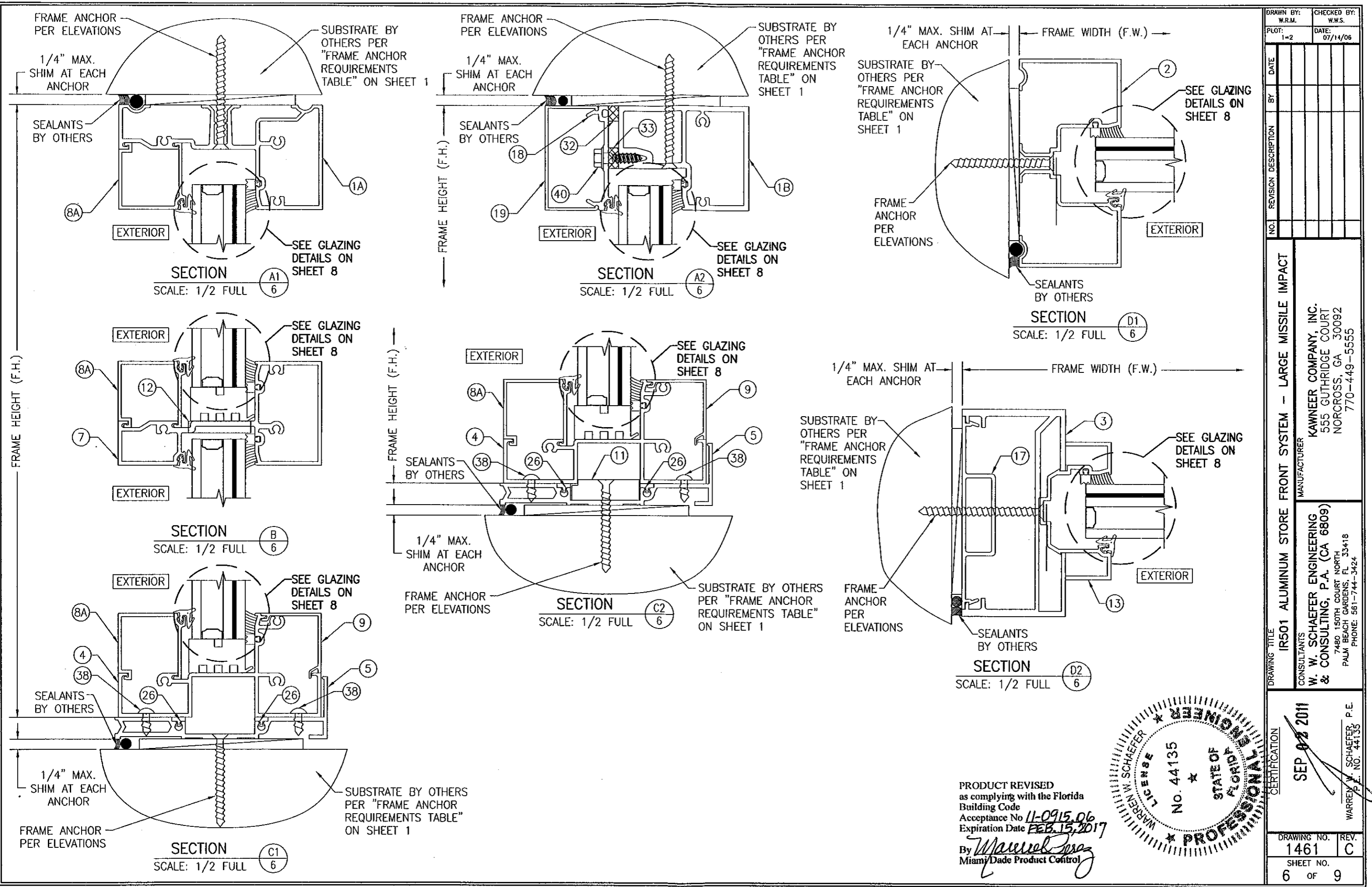
(DOUBLE DOOR CONDITION SHOWN, SINGLE DOOR CONDITION ALSO APPLIES)

SCALE: 1/2"=1'-0"

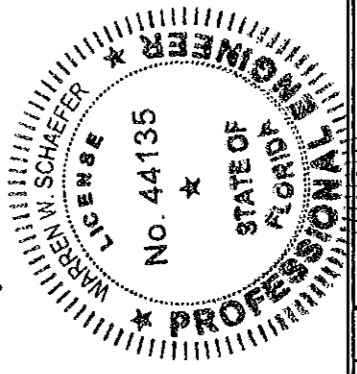
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 11-0915.06
 Expiration Date FEB 15, 2017
 By *Warren W. Schaefer*
 Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/14/06	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION SEP 02 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1461 SHEET NO. 5 OF 9	

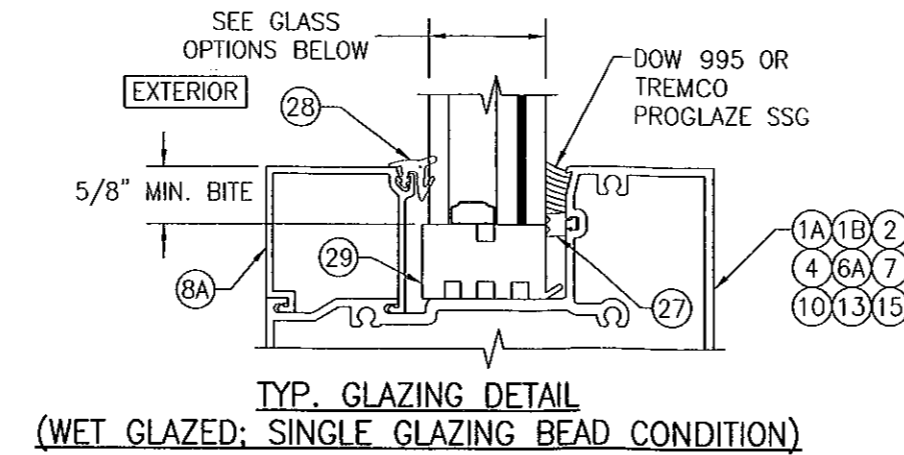
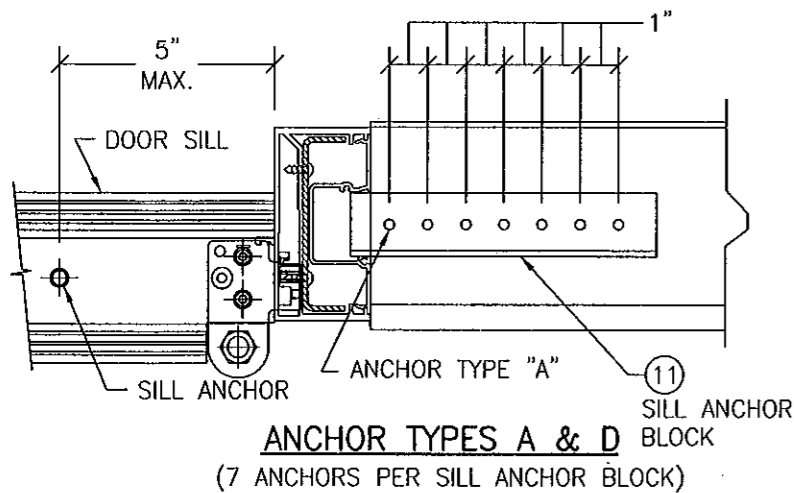
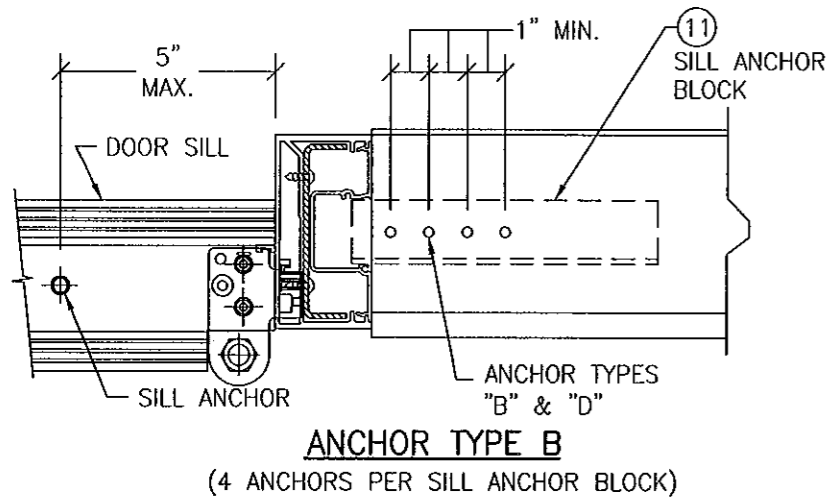
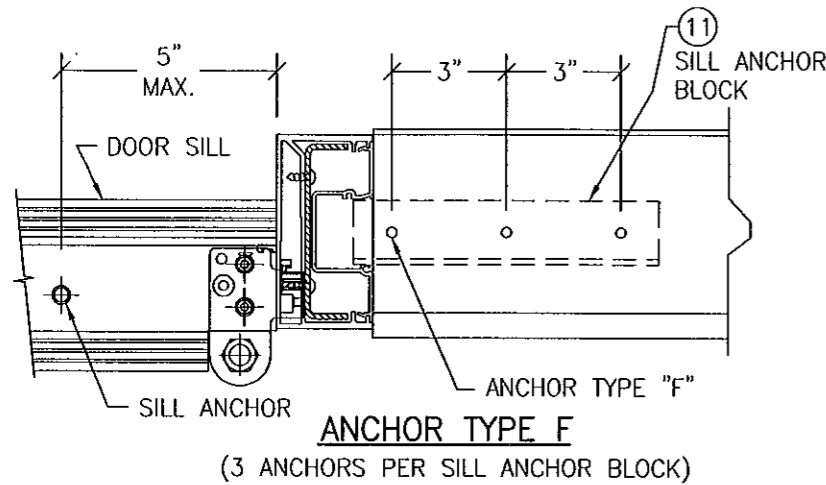


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By *Manuel P. [Signature]*
Miami/Dade Product Control



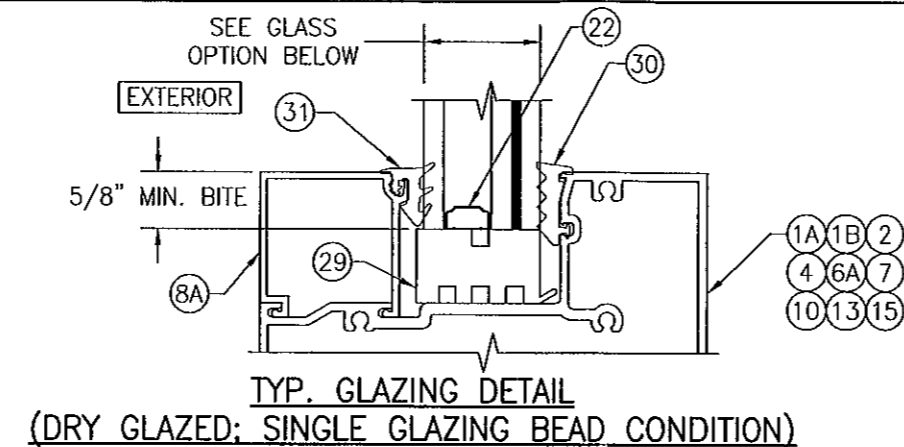
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.		
PLOT: 1=2		DATE: 07/14/06		
NO.	REVISION	DESCRIPTION	BY	DATE
IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT				
DRAWING TITLE		MANUFACTURER		
CONSULTANTS		KAWNEER COMPANY, INC.		
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		555 GUTHRIDGE COURT		
7480 150TH COURT NORTH		NORCROSS, GA 30092		
PALM BEACH GARDENS, FL 33418		770-449-5555		
PHONE: 561-744-3424				
IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT				
DRAWING NO. 1461				
REV. C				
SHEET NO. 6 OF 9				

**MULLION END CONNECTION DETAILS AT VERTICAL
MULLIONS ALONG SIDE DOORS
(TYPICAL AT SILL ONLY)**



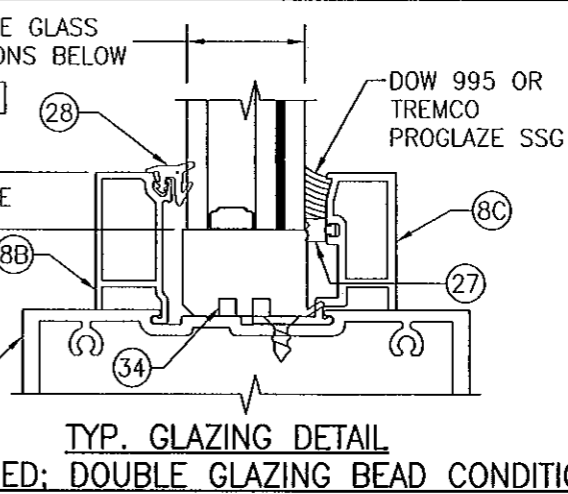
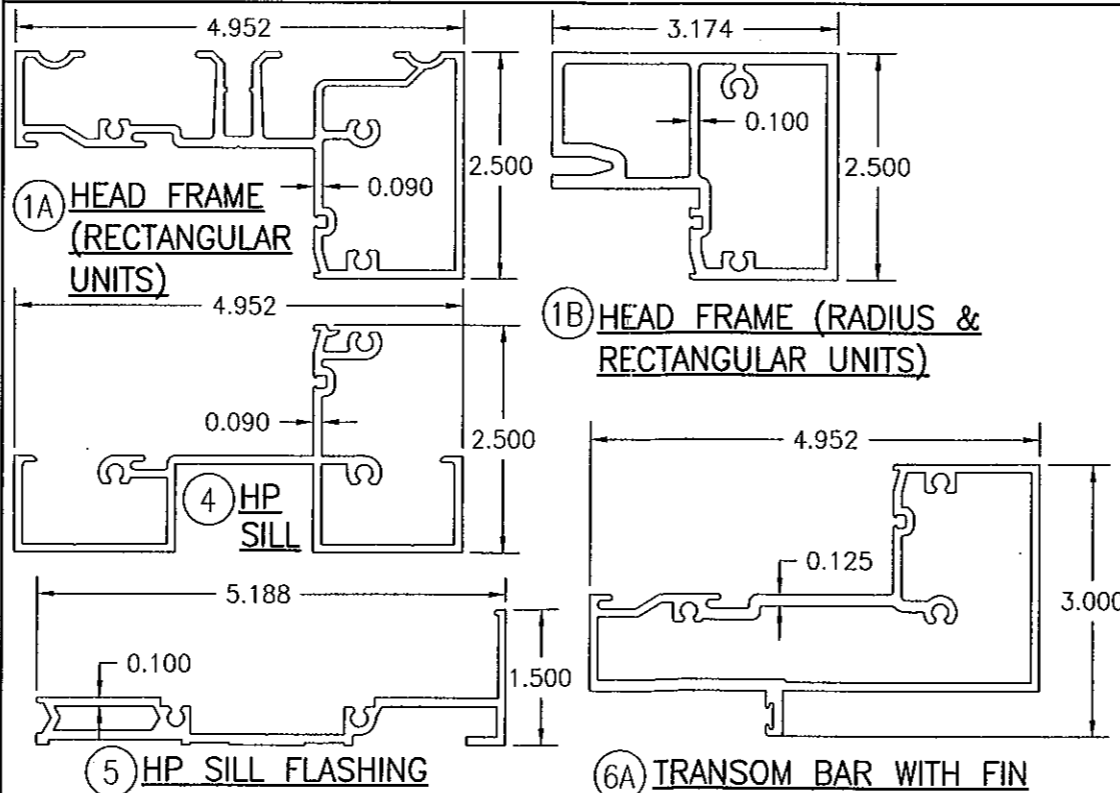
GLASS OPTIONS (WET GLAZED):

- OPTION 1: 1 5/16" THICK LAMINATED GLASS BY SOLUTIA (1/4" HT. ST./1/2" AIR SPACER/1/4" HT. ST./0.09 SOLUTIA SAFLEX IIG PVB/1/4" HT. ST.)
OPTION 2: 1 5/16" THICK LAMINATED GLASS BY DUPONT (1/4" HT. ST./1/2" AIR SPACER/1/4" HT. ST./0.09 DUPONT BUTICITE PVB/1/4" HT. ST.)



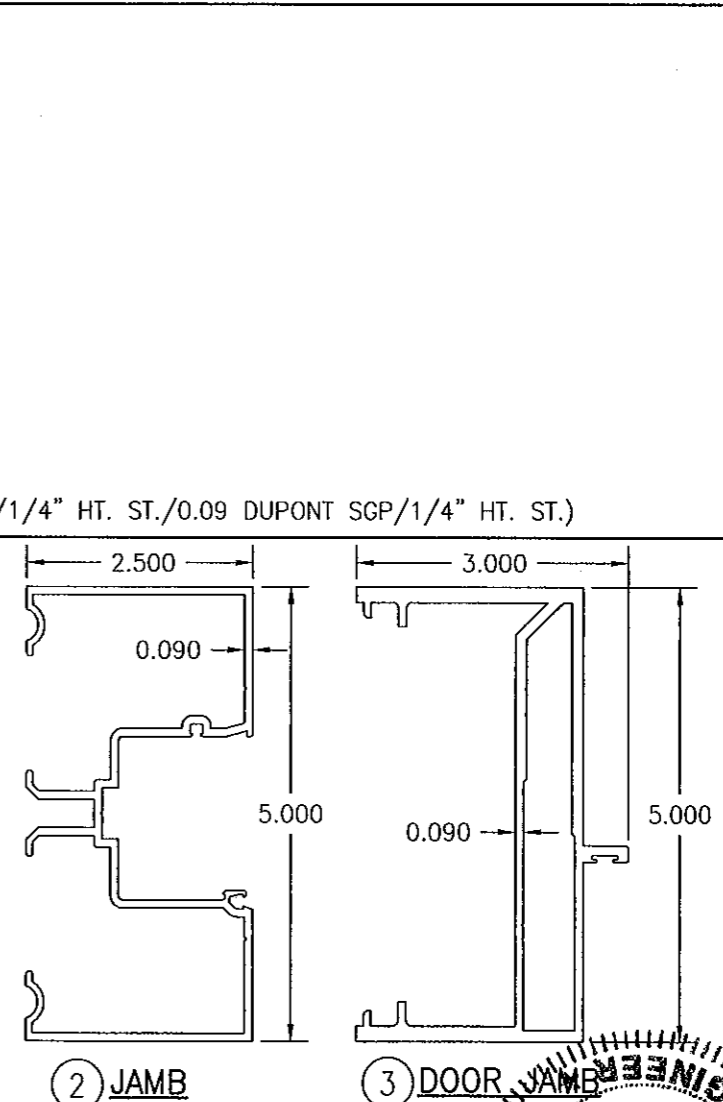
GLASS OPTION (DRY GLAZED):

- OPTION 1: 1 5/16" THICK LAMINATED GLASS BY DUPONT (1/4" HT. ST./1/2" AIR SPACER/1/4" HT. ST./0.09 DUPONT SGP/1/4" HT. ST.)

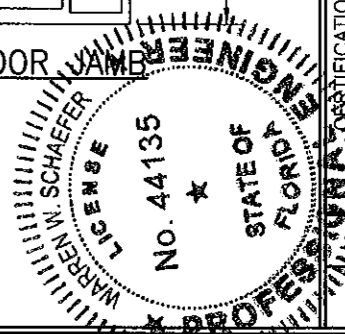


GLASS OPTIONS (WET GLAZED):

- OPTION 1: 1 5/16" THICK LAMINATED GLASS BY SOLUTIA (1/4" HT. ST./1/2" AIR SPACER/1/4" HT. ST./0.09 SOLUTIA SAFLEX IIG PVB/1/4" HT. ST.)
OPTION 2: 1 5/16" THICK LAMINATED GLASS BY DUPONT (1/4" HT. ST./1/2" AIR SPACER/1/4" HT. ST./0.09 DUPONT BUTICITE PVB/1/4" HT. ST.)



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DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLT: 1-2	DATE: 07/14/06
DATE	BY
REVISION DESCRIPTION	NO.
IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL PHONE: 561-744-3424	
DRAWING NO. 1461	REV. C
SHEET NO. 8	OF 9

